

Figure 1

(a) **Genetic map of the *hprt* gene.** The *hprt* gene is located on the X chromosome at band Xp22. The gene structure shows exons as boxes and introns as lines. The positions of the primers used for PCR are indicated by arrows. The scale bar represents 1 kb.

(b) **PCR products of the *hprt* gene.** The gel image shows the PCR products of the *hprt* gene. The lanes are labeled from left to right: Lane 1: DNA ladder; Lane 2: Control sample; Lane 3: Sample A; Lane 4: Sample B; Lane 5: Sample C; Lane 6: Sample D; Lane 7: Sample E; Lane 8: Sample F; Lane 9: Sample G; Lane 10: Sample H; Lane 11: Sample I; Lane 12: Sample J. The bands represent the PCR products of the *hprt* gene.

(c) **Sequencing chromatograms of the *hprt* gene.** The sequencing chromatograms show the nucleotide sequence of the *hprt* gene. The lanes are labeled from left to right: Lane 1: Control sample; Lane 2: Sample A; Lane 3: Sample B; Lane 4: Sample C; Lane 5: Sample D; Lane 6: Sample E; Lane 7: Sample F; Lane 8: Sample G; Lane 9: Sample H; Lane 10: Sample I; Lane 11: Sample J. The peaks represent the individual nucleotides (A, T, C, G).

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INTERFERENCE SEARCHED			
Class	Subclass	Date	Examiner
128	200.23,		
	200.14	10/3/04	all

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